RHB Series

Synthetic blend refrigeration compressor

Your benefits at a glance

Besides its inherent inertness, improved system efficiency and higher productivity, the performance advantages of the RHB Series versus naphthenic oils include:

- Partial miscibility and solubility with CFCs, HCFCs and ammonia for improved oil return to the compressor
- Superior system cleanliness and lubricity to reduce component wear and corrosion
- Superior chemical and thermal stability
- Lower foaming tendency
- Extended oil drain capability

Your requirements - our solution

The RHB Series is formulated from an AB-Alkylbenzene synthetic blend and designed to function under the stringent requirements of CFCs-Chlorofluorocarbon, HCFCs-Hydrochlorofluorocarbon refrigerants like R11, R12, R13, R22, R113, R114, R123, R124 R401a, R401b, R402a, R402b, R403b, R406a, R408a, R409a, R500, R502, R503, & R717 (NH3 aka ammonia) DX and liquid overfeed industrial refrigeration systems.

Application

RHB is well-suited for both rotary screw and reciprocating compressors in ammonia service. It is guaranteed to function with evaporators operating down to -40 °F.

Application notes

RHB Series is compatible with all types of seals and O-rings used in ammonia compressors including Neoprene (chloroprene), Buna-N and NBR. RHB Series is also 100% compatible with naphthenic and paraffinic mineral oils, as well as PAO and AB synthetic oils, which allows top-off over these other oils and eliminates the need for system flushes and excessive evaporator maintenance. As with all specialty lubricants, indoor storage and immediate closing of original containers after use is strongly recommended to avoid particulate and moisture contamination.

Material safety data sheets

Material safety data sheets can be requested via our website https://www.klsummit.com. You may also obtain them through your contact person at Summit Lubrication.

Characteristics	RHB-32	RHB-46	RHB-68
Article number	340280	340266	340257
NSF H2 registration number	145587	145588	145586
Density, 20°C	approx. 0.854 g/cm³	approx. 0.857 g/cm³	approx. 0.864 g/cm³
Flash point, ASTM D92, Cleveland open cup	≥ 200 °C	≥ 200 °C	≥ 220 °C
ISO viscosity grade, DIN ISO 3448, ISO VG	32	46	68
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 5.5 mm²/s	approx. 6.3 mm²/s	approx. 8.1 mm²/s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 32.0 mm²/s	approx. 43.3 mm²/s	approx. 65.5 mm²/s
Viscosity index, ASTM D2270	approx. 109	approx. 91	approx. 89
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -49 °C	approx. -49 °C	approx. -43 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months	36 months	36 months

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Product information

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Summit Lubrication

Your expert in specialty lubricants. Since 1982, we have partnered with you to bring you the right solution and advanced lubrication technologies. With over 500 products, from air and gas compressor oils to refrigeration oils, we develop top-of-the-line products tailored to your specific needs. Your success is our success.

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